

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 4, 2005, 12:02:12 ; Search time 76.9588  
Seconds  
(without alignments)  
5591.830 Million cell  
updates/sec

Title: US-09-300-482-4  
Perfect score: 263  
Sequence: 1  
gaagcactttggatgttc.....agnngnacntnnnnnganna 263

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_NA:  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:/\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:/\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:/\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:/\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:/\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:/\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

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## SUMMARIES

Result	Query					
	No.	Score	Match	Length	DB	ID
Description						
<hr/>						
c 1	61.4	23.3	1830121	4	US-09-557-884-1	
Sequence 1, Appli						
c 2	61.4	23.3	1830121	4	US-09-643-990A-1	
Sequence 1, Appli						
3	59.6	22.7	6132	4	US-09-809-665A-7	
Sequence 7, Appli						
4	58.2	22.1	1533	4	US-09-134-000C-2369	
Sequence 2369, Ap						
5	54	20.5	3015	4	US-09-710-279-3401	
Sequence 3401, Ap						
c 6	54	20.5	3081	4	US-09-710-279-3602	
Sequence 3602, Ap						
7	52	19.8	1548	4	US-09-107-532A-1949	
Sequence 1949, Ap						
8	51.4	19.5	16592	4	US-08-956-171E-53	
Sequence 53, Appl						
9	51.4	19.5	16592	4	US-08-781-986A-53	
Sequence 53, Appli						
c 10	50.6	19.2	2494	3	US-08-714-918-3	
Sequence 3, Appli						
c 11	50.6	19.2	2494	3	US-09-265-315-3	
Sequence 3, Appli						
c 12	50.6	19.2	2494	3	US-09-265-315-3	
Sequence 3, Appli						
c 13	50.6	19.2	2494	3	US-09-266-417-3	
Sequence 3, Appli						
c 14	50.6	19.2	2494	4	US-09-528-709-3	
Sequence 3, Appli						
c 15	50.6	19.2	2494	4	US-09-527-745-3	
Sequence 3, Appli						
c 16	49.6	18.9	1488	3	US-08-962-859A-1	
Sequence 1, Appli						
17	49.6	18.9	1488	4	US-09-583-110-1905	
Sequence 1905, Ap						
18	49.6	18.9	1488	4	US-09-107-433-785	
Sequence 785, App						
19	49	18.6	669	4	US-09-902-540-1996	
Sequence 1996, Ap						
20	49	18.6	669	4	US-09-902-540-1996	

c	20	49	18.6	720	4	US-09-902-540-4
Sequence	4,	Appli				
	21	48.2	18.3	744	4	US-09-248-796A-3185
Sequence	3185,	Ap				
c	22	48	18.3	2764	2	US-08-986-963-4
Sequence	4,	Appli				
	23	48	18.3	13121	3	US-08-961-527-126
Sequence	126,	App				
	24	47.2	17.9	640681	4	US-09-790-988-1
Sequence	1,	Appli				
	25	45.2	17.2	1554	3	US-09-134-001C-351
Sequence	351,	App				
	26	44.6	17.0	219	3	US-09-134-001C-1197
Sequence	1197,	Ap				
	27	42.6	16.2	2631	4	US-09-949-016-4987
Sequence	4987,	Ap				
c	28	42	16.0	3376	4	US-09-710-279-4055
Sequence	4055,	Ap				
	29	39.6	15.1	6995	4	US-09-531-266-1
Sequence	1,	Appli				
	30	37.4	14.2	1461	3	US-08-445-463B-5
Sequence	5,	Appli				
	31	37.4	14.2	1461	3	US-08-445-464C-5
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	32	37.4	14.2	1461	3	US-08-044-857D-5
Sequence	5,	Appli				
	33	37.4	14.2	1461	5	PCT-US94-03437-5
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	34	37.2	14.1	1455	5	PCT-US94-03437-7
Sequence	7,	Appli				
	35	37.2	14.1	1467	5	PCT-US94-03437-3
Sequence	3,	Appli				
	36	37.2	14.1	1571	3	US-08-445-463B-3
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	37	37.2	14.1	1571	3	US-08-445-464C-3
Sequence	3,	Appli				
	38	37.2	14.1	1571	3	US-08-044-857D-3
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	39	37.2	14.1	1696	1	US-07-737-071A-1
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	40	37.2	14.1	1696	1	US-08-022-096-1
Sequence	1,	Appli				
	41	37.2	14.1	1696	3	US-08-445-463B-7
Sequence	7,	Appli				
	42	37.2	14.1	1696	3	US-08-445-464C-7
Sequence	7,	Appli				
	43	37.2	14.1	1696	3	US-08-445-464C-7

43	37.2	14.1	1696	3	US-08-044-857D-7
Sequence 7, Appli					
44	36.4	13.8	34266	4	US-09-949-016-13250
Sequence 13250, A					
45	36.2	13.8	2853	4	US-09-620-312D-463
Sequence 463, App					

## ALIGNMENTS

RESULT 1  
US-09-557-884-1/c  
; Sequence 1, Application US/09557884  
; Patent No. 6506581  
; GENERAL INFORMATION:  
; APPLICANT: Fleischmann et al.  
; TITLE OF INVENTION: The Nucleotide sequence of  
; the Haemophilus influenzae Rd Genome,  
Fragments  
; Thereof, and Uses Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: MD  
; COUNTRY: USA  
; ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3 1/2 inch diskette  
; COMPUTER: Dell Pentium  
; OPERATING SYSTEM: MS DOS v6.22  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/557,884  
; FILING DATE: 25-Apr-2000  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/476,102  
; FILING DATE: JUN-5-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Michelle S. Marks  
; REGISTRATION NUMBER: 41,971  
; REFERENCE/DOCKET NUMBER: PB186P3  
; TELECOMMUNICATION INFORMATION:  
----- 000 000 0001

; TELEPHONE: 301-309-8504  
; TELEFAX: 301-309-8439  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1830121 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-557-884-1

Query Match 23.3%; Score 61.4; DB 4; Length 1830121;  
Best Local Similarity 52.1%; Pred. No. 1.3e-08;  
Matches 110; Conservative 0; Mismatches 101; Indels 0;  
Gaps 0;

Qy 53  
AGGGATGGAATCGCATAATATTGAGAAGCCATTGGCTTGATGCACCTTCTTCCATA 112  
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Db 577356  
ATGGCTGAAACGTATTATCGTTGAAAAACCTTGGTTACGATGAAAAAACAGCGCAA  
577297

Qy 113  
GGCTGACACAATATCTCTTCAAACCTTCAGGAAAAGCAAATATAGAATTGANCATC 172  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 577296  
CATTAGACGTACAAATCCACCCTTCTTGAAGAACACCAAATTATCGTATCGATCATT  
577237

Qy 173  
TACTAGGAAGGAATNCAGTAAAATCNCAGGTTAAGGGTTCAAANNAGNTTTG 232  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 577236  
ATTAGGTAAAGAAACCGTTCAAAACTGCTCGTATTACGTTTCAAATGGTTGGTTG  
577177

Qy 233 AGCCACCTNGAGNNGNACNTNNNNNGANNA 263  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 577176 AACCGCTTGGAACCGTAATTCATTGATTA 577146

RESULT 2  
US-09-643-990A-1/c  
; Sequence 1, Application US/09643990A  
; Patent No. 6528289  
; GENERAL INFORMATION:  
; APPLICANT: Robert D. Fleischmann  
; Mark D. Adams  
; Owen White  
; Hamilton O. Smith  
; J. Craig Venter  
; TITLE OF INVENTION: The Nucleotide sequence of  
; the Haemophilus influenzae Rd Genome,  
Fragments  
; Thereof, and Uses Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville,  
; STATE: MD  
; COUNTRY: USA  
; ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3 1/2 inch diskette  
; COMPUTER: Dell Pentium  
; OPERATING SYSTEM: MS DOS v6.22  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/643,990A  
; FILING DATE: 23-Aug-2000  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/487,429  
; FILING DATE: 1995-06-07  
; APPLICATION NUMBER: 08/426,787  
; FILING DATE: 1995-04-21  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kenley K. Hoover  
; REGISTRATION NUMBER: 40,302  
; REFERENCE/DOCKET NUMBER: PB186P1C1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 301-610-5790  
; TELEFAX: 310-309-8439  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1830121 base pairs  
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; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-643-990A-1

Query Match 23.3%; Score 61.4; DB 4; Length  
1830121;

Best Local Similarity 52.1%; Pred. No. 1.3e-08;  
Matches 110; Conservative 0; Mismatches 101; Indels  
0; Gaps 0;

Qy 53

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Db 577356

ATGGCTGGAAACGTATTATCGTTGAAAAACCTTGGTTACGATGAAAAAACAGCGCAA  
577297

Ov 113

GGCTGACACAATATCTTCTTCAGGAAAAGCAAATATAGAATTGANCATC 172

11 / 11

Db 577296

CATTAGACGTACAAATCCACCGTTCTTGAAGAACACCAAATTATCGTATCGATCATT  
577237

Ov 173

TACTAGGAAGGAATNCAGTAAAATCCTNCAGGTTAAGGGTTCAAANNNAGNTTTG 232

三

Db E77236

ATTTAGGTAAAGAACCGTTCAAAAC TTGCTCGTATTACGTTTCAAATGGTTGGTTG  
577177

Dy 233 AGCCACCTTNGAGNNNACNTNNNNNGANNA 263

Pb 537176 NACCCGTTTCGNNACCTTATTGATTGATTA 537146

### RESULT 3

REF ID: S  
HS-09-809-665A-7

: Sequence 7 Application US/09809665A

Patent No. 6780850

**GENERAL INFORMATION:**

; APPLICANT: Lowery E., David, et al.  
; TITLE OF INVENTION: Anti-Bacterial Vaccine Compositions  
; FILE REFERENCE: 28341/00435  
; CURRENT APPLICATION NUMBER: US/09/809,665A  
; CURRENT FILING DATE: 2001-03-15  
; PRIOR APPLICATION NUMBER: 60/153,453  
; PRIOR FILING DATE: 1999-09-10  
; PRIOR APPLICATION NUMBER: 60/128,689  
; PRIOR FILING DATE: 1999-04-09  
; PRIOR APPLICATION NUMBER: 09/545,199  
; PRIOR FILING DATE: 2000-04-06  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 7  
; LENGTH: 6132  
; TYPE: DNA  
; ORGANISM: Pasteurella multocida  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (4032)..(4727)  
; OTHER INFORMATION: devB

Query Match 22.7%; Score 59.6; DB 4; Length 6132;  
Best Local Similarity 51.4%; Pred. No. 3.5e-09;  
Matches 110; Conservative 0; Mismatches 104; Indels  
0; Gaps 0;

Qy 50  
 AGAAGGGATGGAATCGCATATAATTGAGAAGCCATTGGCTTGATGCACTTCTTCCC 109  
 ||| ||||| ||| ||||| ||| ||||| ||| |||||  
 | |  
 Db 2903

AGTTGGCTGAAAGCGGTTAATTGTGAAAAACCGTTGGTATGATATAACGCACGGCAA 2962

Db 2963  
AAGAAACTCGATATTCAAATTCAACCGTTCTTGTGAAACACCAAAATTATCGTATTGACC 3022



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||||||| |||
Db      485
ATTAAATGAAGAAATCGTGCTGCATTCCCTGAACAAGATAAATTCGAAATTGACCATT 544

Qy      173
TACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTAAGGGTTCAANNNAGNTTTG 232
||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      545
ACTTAGGCAAAGAAATGATCCAAAATATTCAAGCCATTGTTTGCCAATAATTTTG 604

Qy      233 AGCCACCTTNGAGNNGNACNTNNNNNGANNA 263
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      605 AATCACAAATGGAACAATCGTTACATTGATAA 635

```

## RESULT 5

US-09-710-279-3401  
; Sequence 3401, Application US/09710279  
; Patent No. 6703492  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS  
AND PROTEINS  
; FILE REFERENCE: PU3480US  
; CURRENT APPLICATION NUMBER: US/09/710,279  
; CURRENT FILING DATE: 2000-11-09  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3401  
; LENGTH: 3015  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:  
synthetic  
; OTHER INFORMATION: nucleic acid sequence  
US-09-710-279-3401

Query Match 20.5%; Score 54; DB 4; Length 3015;  
Best Local Similarity 54.5%; Pred. No. 1.e-07;  
Matches 114; Conservative 0; Mismatches 93; Indels  
2; Gaps 1;

Qy 45  
GACCCAGAAGGGATGGAATCGCATAATATTGAGAAGCCATTGGCTTGATGCACTTC 104  
| || | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 1315  
GAACGTAAAAGGGGTGATGCGAATAATTAGAAAAACCATTGGTGATGATTAAATC 1374

Qy 105  
TTCCCATAGGCTGACACAATATCTTCTTCAAACTTCAGGAAAAGCAAATATAGAAC 164  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 1375  
T--GCAAAAAATTAAATAATCAAATAAGAAAGTCTTTAAGAAGAAAAATATTGGAAT 1432

Qy 165  
TGANCATCTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTAAGGGTTCAAANN 224  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 1433  
TGATCACTATTTAGTAAAGAAATGATTCAAATATTGAACGTCTACGATTTGAAACAC 1492

Qy 225 AGNTTTGAGCCACCTNGAGNNGNACNT 253  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
Db 1493 TATATTTGAACCACTTGGATAATAAGT 1521

RESULT 6

US-09-710-279-3602/c  
; Sequence 3602, Application US/09710279  
; Patent No. 6703492  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS  
AND PROTEINS  
; FILE REFERENCE: PU3480US  
; CURRENT APPLICATION NUMBER: US/09/710,279  
; CURRENT FILING DATE: 2000-11-09  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3602  
; LENGTH: 3081  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence:  
synthetic  
; OTHER INFORMATION: nucleic acid sequence  
US-09-710-279-3602

Query Match 20.5%; Score 54; DB 4; Length 3081;  
Best Local Similarity 54.5%; Pred. No. 1.8e-07;  
Matches 114; Conservative 0; Mismatches 93; Indels  
2; Gaps 1;

Qy 45  
GACCCAGAAGGGATGGAATCGCATAATATTGAGAAGCCATTGGCTTGATGCACTTTC 104  
||||| ||||| ||| ||| ||||| | ||| ||| ||||| ||| ||| ||||| ||| |||

| ||  
Db 2346  
GAACGTAAAAGGGGTGATGCGAATAATTATAGAAAAACCATTGGTATGATTAAAATC 2287

Qy 105  
TTCCCATAGGCTGACACAATATCTTCTTCAAACCTTCAGGAAAGCAAATATAGAAC 164  
||||||| | |||||  
Db 2286

T--GCAAAAAATTAAATAATCAAATAAGAAAGTCTTTAAGAAGAAAAATATTGGAAT 2229

Qy 165  
TGANCATCTACTAGGAAGGAATNCAGTAAAATCCTNCAGGTTAAGGTTCAAANN 224  
||||| ||| ||||| | | | | ||||| | | ||| |||  
Db 2228

TGATCACTATTAGGTAAGAAATGATTCAAATATTGAACGTCTACGATTTGAAACAC 2169

Qy 225 AGNTTTGAGCCACCTNGAGNNGNACNT 253  
||||| ||||| ||| | | |  
Db 2168 TATATTGAAACCCTTGGAAATAAAAGT 2140

RESULT 7  
US-09-107-532A-1949  
; Sequence 1949, Application US/09107532A  
; Patent No. 6583275  
; GENERAL INFORMATION:  
; APPLICANT: Lynn A Doucette-Stamm and David Bush  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES  
RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS  
; AND THERAPEUTICS

; NUMBER OF SEQUENCES: 7310  
; CORRESPONDENCE ADDRESS:  
;     ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
;     STREET: 100 Beaver Street  
;     CITY: Waltham  
;     STATE: Massachusetts  
;     COUNTRY: USA  
;     ZIP: 02354  
; COMPUTER READABLE FORM:  
;     MEDIUM TYPE: CD-ROM ISO9660  
;     COMPUTER: PC  
;     OPERATING SYSTEM: <Unknown>  
;     SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
;     APPLICATION NUMBER: US/09/107,532A  
;     FILING DATE: 30-Jun-1998  
; PRIOR APPLICATION DATA:  
;     APPLICATION NUMBER: 60/085,598  
;     FILING DATE: 14 May 1998  
;     APPLICATION NUMBER: 60/051571  
;     FILING DATE: July 2, 1997  
; ATTORNEY/AGENT INFORMATION:  
;     NAME: Ariniello, Pamela Deneke  
;     REGISTRATION NUMBER: 40,489  
;     REFERENCE/DOCKET NUMBER: GTC-012  
; TELECOMMUNICATION INFORMATION:  
;     TELEPHONE: (781)893-5007  
;     TELEFAX: (781)893-8277  
; INFORMATION FOR SEQ ID NO: 1949:  
; SEQUENCE CHARACTERISTICS:  
;     LENGTH: 1548 base pairs  
;     TYPE: nucleic acid  
;     STRANDEDNESS: double  
;     TOPOLOGY: circular  
;     MOLECULE TYPE: DNA (genomic)  
;     HYPOTHETICAL: NO  
;     ANTI-SENSE: NO  
; ORIGINAL SOURCE:  
;     ORGANISM: Enterococcus faecium  
; FEATURE:  
;     NAME/KEY: misc\_feature  
;     LOCATION: (B) LOCATION 1...1548  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1949:  
US-09-107-532A-1949

Query Match                19.8%; Score 52; DB 4; Length 1548;

## RESULT 8

US-08-956-171E-53

: Sequence 53, Application US/08956171E

Patent No. 6593114

**GENERAL INFORMATION**

APPLICANT: Charles Kunsch

Gil H. Choi

See also under Patrick S. L.

Craig A. Rosen

Craig M. Rosen  
Steven C. Barash

Steven C. Barash  
Michael R. Fannon

## and Sequences



### RESULT 9

US-08-781-986A-53  
; Sequence 53, Application US/08781986A  
; Patent No. 6737248  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides  
and Sequences  
; NUMBER OF SEQUENCES: 5255  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: Maryland  
; COUNTRY: USA  
; ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
; COMPUTER: HP Vectra 486/33  
; OPERATING SYSTEM: MSDOS version 6.2  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/781,986A

FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Benson, Bob  
REGISTRATION NUMBER: 30,446  
REFERENCE/DOCKET NUMBER: PB248PP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 53:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16592 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
US-08-781-986A-53

Query Match 19.5%; Score 51.4; DB 4; Length 16592;

Best Local Similarity 51.0%; Pred. No. 2.8e-06;  
Matches 103; Conservative 0; Mismatches 99; Indels  
0; Gaps 0;

Qy 52  
AAGGGATGGAATCGATAATTTGAGAAGCCATTGGCTTGATGCACTTCTTCCCAT 111  
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Db 814  
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TTAAATCAGCCGAA 873

Db 874  
GCATTAACAAATCAAATCGTAAATCATTTAAAAGAAGAAGAAAATTATCGTATTGACCAC 933

Qy 172  
CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTAAGGGTTCAAANNAGNTTT 231

Db 934

Qy            232 GAGCCACCTTNGAGNNGNACNT 253  
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Db            994 GAACCATTATGGAATAACAAAT 1015

RESULT 10  
US-08-714-918-3/c  
; Sequence 3, Application US/08714918  
; Patent No. 6037123  
; GENERAL INFORMATION:  
;      APPLICANT: Benton, Bret  
;      APPLICANT: Lee, Ving  
;      APPLICANT: Malouin, Francois  
;      APPLICANT: Martin, Patrick K.  
;      APPLICANT: Schmid, Molly B.  
;      APPLICANT: Sun, Dongxu  
;      TITLE OF INVENTION: STAPHYLOCOCCUS AUREUS ANTIBACTERIAL  
;      TITLE OF INVENTION: TARGET GENES  
;      NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
;      ADDRESSEE: Lyon & Lyon  
;      STREET: 633 West Fifth Street  
;      STREET: Suite 4700  
;      CITY: Los Angeles  
;      STATE: California  
;      COUNTRY: U.S.A.  
;      ZIP: 90071-2066  
COMPUTER READABLE FORM:  
;      MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;      MEDIUM TYPE: storage  
;      COMPUTER: IBM Compatible  
;      OPERATING SYSTEM: IBM P.C. DOS 5.0  
;      SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
;      APPLICATION NUMBER: US/08/714,918  
;      FILING DATE: September 13, 1996  
;      CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
;      APPLICATION NUMBER: 60/009,102  
;      FILING DATE: December 22, 1995  
;      APPLICATION NUMBER: 60/003,798  
;      FILING DATE: September 15, 1995  
ATTORNEY/AGENT INFORMATION:  
;      NAME: Warburg, Richard J.  
;      REGISTRATION NUMBER: 32,327

-----

; REFERENCE/DOCKET NUMBER: 222/005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2494 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-714-918-3

Query Match 19.2%; Score 50.6; DB 3; Length 2494;  
Best Local Similarity 50.0%; Pred. No. 2.1e-06;  
Matches 101; Conservative 2; Mismatches 99; Indels  
0; Gaps 0;

Qy 52  
AAGGGATGGAATCGCATATAATTGAGAAGCCATTGGCTTGATGCACTTCCTCCAT 111  
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Db 1425  
AAAGGATTTAACGCCTTGTATCGAAAAACATTGGTAGTGGATTAAAATCAGCCGAA 1366

Qy 112  
AGGCTGACACAATATCTCTTCAAACCTTCAGGAAAGCAAATATAGAATTGANCAT 171  
|| | || | || || || || || || || || || || || || || || || || || || || ||

Db 1365  
GCATTAACAAATCAAATTGTAATCATTAAAGAAGAAGAAATTAYCGTATKGACCAC 1306

Qy 172  
CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTAAGGGTTCAAANNNAGNTTT 231  
|| || || | || || || || || || || || || || || || || || || || || ||

Db 1305  
TATTTAGGAAAAGACATGGTCAAAATATCGAGGTATTACGTTTGCATGCGATGTTT 1246

Qy 232 GAGCCACCTTNGAGNNGNACNT 253  
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Db 1245 GAACCATTATGGAATAACAAAT 1224

RESULT 11

US-09-265-315-3/c

; Sequence 3, Application US/09265315  
; Patent No. 6187541  
; GENERAL INFORMATION:  
; APPLICANT: Benton, Bret  
; APPLICANT: Lee, Ving J.  
; APPLICANT: Malouin, Francois  
; APPLICANT: Martin, Patrick K.  
; APPLICANT: Schmid, Molly B.  
; APPLICANT: Sun, Dongxu  
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS  
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS  
; TITLE OF INVENTION: TARGET GENES  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/265,315  
; FILING DATE: March 9, 1999  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 240/247  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2494 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-265-315-3

Query Match 19.2%; Score 50.6; DB 3; Length 2494;  
Best Local Similarity 50.0%; Pred. No. 2.1e-06;  
Matches 101; Conservative 2; Mismatches 99; Indels  
0; Gaps 0;

Qy 52  
AAGGGATGGAATCGCATAATTTGAGAAGCCATTGGCTTGATGCACTTCTTCCAT 111

|| || ||  
Db 1425  
AAAGGATTTAACGCGCTTATCGAAAAACCATCGGTAGTGATTAAAATCAGCGCAA 1366

Qy 112  
AGGCTGACACAATATCTTCTTCAAACTTCAGGAAAAGCAAATATAGAATTGANCAT 171

Db 1365  
CGATTAANACGAAATTCTTAATGATTTAACAGAAGAAATTTAXCTATKGAGCAG 1306

Qy 172  
CTACTAGGAAGGAATCNCAGTAAAATCCTNCAGGTTAAGGGTTCAANNNAGNTTT 231

Db 1305  
TATTTAGGCGGGGGCGATGCTTCGAAATTATGCCGGCTTTGCGTTTGCCTAATGCCATGTTT 1306

QY 232 GAGCCACCTTNGAGNNGNACNT 253  
           || ||| | || | | |  
 Ph 1245 GAGCCATTTATGGCTTACGAACT 1264

RESULT 12  
US-09-265-315-3/c  
; Sequence 3, Application US/09265315  
; Patent No. 6187541  
; GENERAL INFORMATION:  
; APPLICANT: Benton, Bret  
; APPLICANT: Lee, Ving J.

; APPLICANT: Malouin, Francois  
; APPLICANT: Martin, Patrick K.  
; APPLICANT: Schmid, Molly B.  
; APPLICANT: Sun, Dongxu  
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS  
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS  
; TITLE OF INVENTION: TARGET GENES  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/265,315  
; FILING DATE: March 9, 1999  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 240/247  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2494 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
-----

; TOPOLOGY: linear

Query Match 19.2%; Score 50.6; DB 3; Length 2494;  
Best Local Similarity 50.0%; Pred. No. 2.1e-06;  
Matches 101; Conservative 2; Mismatches 99; Indels  
0; Gaps 0;

Ov 52

AAGGGATGGAATCGCATAATATTGAGAAGCCATTGGCTTGATGCACTTCTCCCAT 111

1425

AAAGGATTTAACGCCTTGTATCGAAAAACCATTCGGTAGTGATTTAAAATCAGCCGAA 1366

Ov 112

AGGCTGACACAATATCTTTCAAACTTCAGGAAAAGCAAATATAGAATTGANCAT 171

11:11 11  
Dh 1365

CCATTAAAGATGAAATTCTAAATGATTTAACAGACAAATTAXCTATKGACCGAC 1306

Ov 172

CTACTAGGAAGGAATCNCAGTAAAATCCTNCAGGTTAAGGGTTCAAANNNAGNTTTT 231

III 1205

DB 1305

232. SUGGESTING AN ENVIRONMENT 252

QY 232 GAGCCACCTTGGAGNNNGNACN1

REGIMENT 13

RESULT IS

03-09-200-417-570

; sequence 3, Application

; Patent No. 6228388

; GENERAL INFORMATION:

; APPLICANT: Benton, Bret

; APPLICANT: Lee, Ving J.

; APPLICANT: Malouin, Francois

; APPLICANT: Martin, Pat

; APPLICANT: Schmid, Molly B.

; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS  
; TITLE OF INVENTION: TARGET GENES  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/266,417  
; FILING DATE: March 9, 1999  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 240/248  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2494 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-266-417-3

Query Match 19.2%; Score 50.6; DB 3; Length 2494;  
Best Local Similarity 50.0%; Pred. No. 2.1e-06;

### RESULT 14

US-09-528-709-3/c

; Sequence 3, Application US/09528709

; Patent No. 6630303

**GENERAL INFORMATION:**

APPLICANT: Benton, Bret

Lee, Ving

Malouin,

Martin, Patrick K

Schmid, Molly

Sun, Dongxu

TITLE OF INVENTION: STAPHYLO

TARGET

; NUMBER OF SEQUENCES: 111

CORRESPONDENCE ADDRESS:

; Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/528,709  
; FILING DATE: 17-Mar-2000  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 222/005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2494 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-09-528-709-3

Query Match 19.2%; Score 50.6; DB 4; Length 2494;  
Best Local Similarity 50.0%; Pred. No. 2.1e-06;  
Matches 101; Conservative 2; Mismatches 99; Indels  
0; Gaps 0;

Qy 52  
AAGGGATGGAATCGATAATATTGAGAAGCCATTTGGCTTGATGCACTTCTTCCCAT 111

RESULT 15

U.S.=0.9=52.7=745=3/c

: Sequence 3 Application US/09527745

; Patent No. 6638718

**GENERAL INFORMATION:**

**GENERAL INFORMATION.**

LEADER: SONOMA, S.  
Lee Wing

Malawi. Economic  
bee, ving

Matoulin, Francois  
Maurice, Robert K.

Martin, Patrick  
Sachse, Mall, E

SCHMID, MOL  
S. B.

SUN, DONGXU

TITLE OF INVENTION: STAPHYLOCOCCUS AUREUS ANTIBACTERIAL  
TARGET GENES

; NUMBER OF SEQUENCES: 111

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon &

; STREET: 633 West F

Suite 4700

; CITY: Los Angeles

; STATE: California

COUNTRY: U.S.A.

ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/527,745  
FILING DATE: 17-Mar-2000  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/714,918  
FILING DATE: September 13, 1996  
APPLICATION NUMBER: 60/009,102  
FILING DATE: December 22, 1995  
APPLICATION NUMBER: 60/003,798  
FILING DATE: September 15, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 222/005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2494 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-09-527-745-3

Query Match 19.2%; Score 50.6; DB 4; Length 2494;  
Best Local Similarity 50.0%; Pred. No. 2.1e-06;  
Matches 101; Conservative 2; Mismatches 99; Indels  
0; Gaps 0;

Qy 52

AAGGGATGGAATCGATAATAATTGAGAAGGCCATTGGCTTGTGCACTTTCTTCCCCAT 111

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Db 1425  
AAAGGATTTAACGCCTTGTATCGAAAAACCATTCGGTAGTGATTAAAATCAGCCGAA 1366

Qy 112 AGGCTGACACAATATCTTCTTCAAACTTCAGGAAAAGCAAATATAGAATTGANCAT 171  
|||:||| |||  
Db 1365 GCATTAACAAATCAAATTCTGAAATCATTTAAGAAGAAGAAATTAYCGTATKGACCAC 1306

Qy 172 CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTAAGGGTTCAAANNNAGNTTT 231  
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Db 1305 TATTTAGGAAAAGACATGGTTCAAAATATCGAGGTATTACGTTTGCATGCGATGTTT 1246

Qy 232 GAGCCACCTTNGAGNNGNACNT 253  
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Db 1245 GAACCATTATGGAATAACAAAT 1224

Search completed: May 4, 2005, 12:27:36  
Job time : 81.9588 secs